## Snake Moves

You are tasked to visualize a snake's **zigzag path** in a **rectangular matrix with size N x M**.

The **snake** is represented by **a string**. It starts moving from the **top-left corner** to the **right**. When the snake reaches the end of the row, it slithers its way **down to the next row and turns left**. The moves are repeated to the very end.

The first cell is filled with the first symbol of the snake, the second cell is filled with the second symbol, etc. The snake's path is long as it takes to **fill the matrix completely** - if you reach **the end** of the string representing the snake, start **again at the first symbol**. At the end you should **print the snake's path**.

### Input

The input data consists of exactly two lines:

* On the first line, you will receive the **dimensions N x M** of the field in format: **"{rows} {columns}"**.
* On the second line you will receive the string representing the **snake**

### Output

* You should print the **snake's zigzag path of size N x M** (rows x columns)

### Constraints

* The **dimensions** N and M of the matrix will be integers in the range [1 … 12]
* The **snake** will be a string with length in the range [1 … 20] and **will not contain any whitespace characters**

### Examples

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| --- | --- |
| **Input** | **Output** |
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| 1 4  Python | Pyth |